N.8095

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AUTHORS:

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Gasperik, Juraj, Professor, Doctor, Zvachová-Huppmannová, Klára, Engineer, and Zvach, Jan, Engineer

TITLE:

Processing technical mixtures of multivalent phenols to resinous products - III. Condensation of pyrocatechol residues with formaldehyde in alkaline medium

PERIODICAL:

Chemické zvesti, no. 1-2, 1962, 56 - 59

TEXT: This article, a continuation of previous studies on phenol condensation, investigates the polycondensation of pyrocatechol residues and the mixed polycondensation of pyrocatechol residues and diphene with formaldehyde in alkaline medium to resoles. The quality of reaction products was determined by refraction index, viscosity, and specific gravity measuring. The tests showed that pyrocatechol residues are generally suitable for preparing acid-hardenable resoles. The optimum refraction index of obtained resoles lies at

Card 1/2

Processing technical mixtures ... Z/043/62/000/001-2/002/002

1.4840 - 1.4880. The optimum pyrocatechol to formaldehyde ratio is 1:0.98, at a content of 0.01 moles NaOH in respect to the phenolic component. Most advantageous weight ratios of pyrocatechol residues and diphene in mixed polycondensation are 30:70 and 70:30. Due to the high reactivity of the two phenolic components; the condensation with formaldehyde requires special care, especially when larger quantities are involved. There are 2 tables and 2 Soviet-bloc references.

ASSOCIATION:

Katedra organickej technológie Slovenskej vysokej skoly technickej v Bratislave (Department of Organic Technology at the Slovak Institute of Technology in Bratislava) (J. Gasperík); Kovosmalt, n.p., Trnava (Kovosmalt, National Enterprise in Trnava) (K. Zvachová- Huppmannová

SUBMITTED:

August 15, 1961

Card 2/2

CAECHOSLOVAKIA / Chemical Technology, Chemical Products H and Their Application, Part 3. - Industrial Organic Synthesis. Abs Jour: Ref Zhur-Khimiya; No 18, 1958, 61842. Author : Jan Zvach. Inst : Not Biven. : Continuous Production of Tert-Butyl Hydroper-Title oxide and Di-Tert-Butyl Peroxide. Orig Pub: Chem. prumysl, 1957, 7, No 2, 78 - 79. Abstract: CH<sub>2</sub>)<sub>2</sub>COOH (I) or (CH<sub>2</sub>)<sub>3</sub>COOC(CH<sub>2</sub>)<sub>3</sub> (II) are prescheme of (CH<sub>3</sub>)<sub>3</sub>CSO<sub>4</sub>H (III) according to the kcal per mole; III / H<sub>2</sub>SO<sub>4</sub> = III / H<sub>2</sub>O / 17.97 kcal per mole; I / III = II / H<sub>2</sub>SO<sub>4</sub> / 77.65 kcal per mole. The process is carried out in a glass installation consisting of a loading a glass installation consisting of a loading part, a reaction column (800 mm high, 12. mm Card 1/4

CZECHOSLOVAKIA / Chemical Technology, Chemical Products H and Their Application, Part 5. - Ind-ustrial Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61842.

Abstract: inside dia.) packed with porcelain rings (1600 rings, each 4 mm high, 1 mm inside dia., walls l mm thick) and a collector of reaction prodlucts. All the part connections are ground and (but not with fat). Water is let into the collector of work, then 7 g of equimolar mixture of III with H20, solution per min. is fed through two pidly on the great surface of the packing, a short time later the upper layer of I in the collector is separated. 2,500 g of I is produced in 8 hours. The product purified and dried over

Card 2/4

51

 CZECHOSLOVAKIA / Chemical Technology, Chemical Products H and Their Application, Part 3. - Industrial Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61842.

Abstract: Na<sub>2</sub>SO<sub>4</sub> contains 13.2% of active oxygen, which answers a 75%-ual content of I. The melting point of the prepared I is 3.8 to 4.8°, its n<sup>2</sup>O is 1.4013, MRD is 24.42, the dissociation heat is 39 kcal per mole. II is prepared in a similar way, its properties are: melting point 0.793, n<sup>2</sup>O = 1.3872, MRD = 43.36, dissociation and installation guarantee the safety possibility (sic:) and the continuous production of

Card 3/4

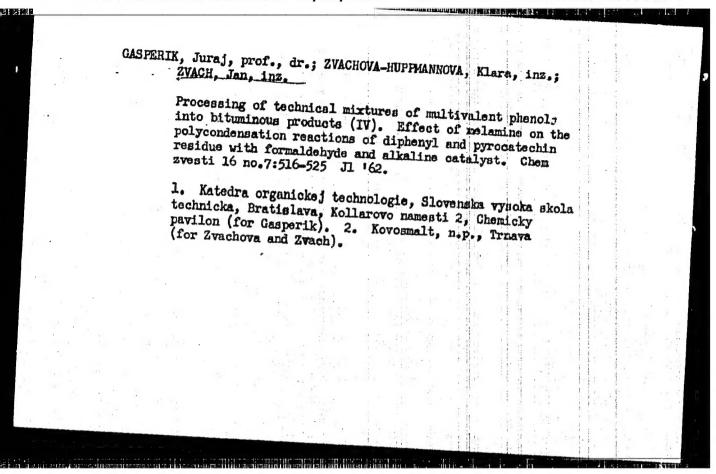
CZECHOSLOVAKIA / Chemical Technology, Chemical Froducts H and Their Application, Part 3. - Industrial Organic Synthesis.

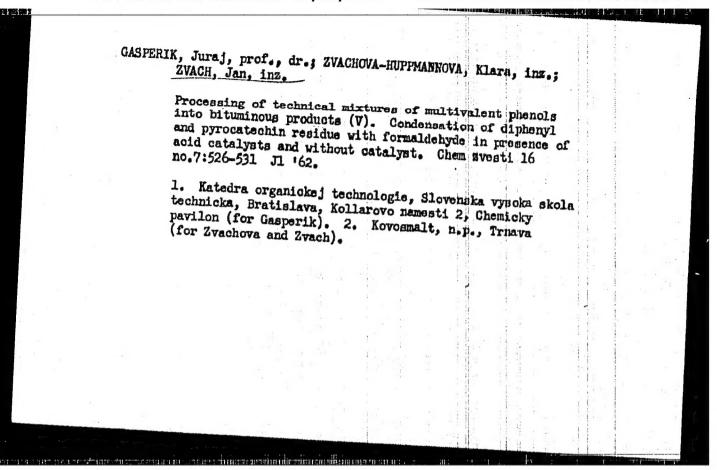
Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61842.

Abstract: other peroxides from liquid raw materials. I and II are polymerization initiators and are used for the preparation of polyester resins.

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52





B H BALFAL ZVACH Jan CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 3. - Industrial Organic Synthesis. Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 81843. Author : Jan Zyach, Klara Zyachova-Huppmannova. : Not given. Inst Title : New Equipment for Tret-Butyl Preparation. Orig Pub: Chem. Prumysl, 1957, 7, No 12, 654 Abstract: The equipment for tret-butyl preparation according to the authors; method (see the forgoing abstract) is described. As compared with other methods, that process distinguishes itself by safety, continuity and remote control. (CH3) a CSO<sub>4</sub>H (1 mole) and 30%-ual H<sub>2</sub>O<sub>2</sub> (1.2 mole) are fed through calibrated capillaries with electromagnetic valves into the packed column cooled magnetic valves into the packed column cooled Card 1/2

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N.8092 AUTHORS:

Gasperik, Juraj, Professor, Doctor, Zvachová-Huppmannová, Klára, Engineer, and Zvach, Jan, Engineer

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Processing technical mixtures ... 2/043/62/000/001-2/002/002

1.4840 - 1.4880. The optimum pyrocatechol to formaldehyde ratio is 1 : 0.98, at a content of 0.01 moles NaOH in respect to the phenolic component. Most advantageous weight ratios of pyrocatechol residues and diphene in mixed polycondensation are 30 : 70 and 70 : 30. Due to the high reactivity of the two phenolic components, the condensation with formaldehyde requires special care, especially when larger quantities are involved. There are 2 tables and 2 Sovist-bloc refer-

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DIE TALEMAN

Katedra organickej technológie Slovenskej vysokej skoly technickej v Bratislave (Department of Organic Technology at the Slovak Institute of Technology in Bratislava) (J. Gasperik); Kovosmalt, n.p., Trnava (Kovosmalt, National Enterprise in Trnava) (K. Zvachová- Huppmannová

SUBMITTED:

August 15, 1961

Card 2/2

GASPERIK, Juraj, prof., dr.; ZVACHCVA-HUPPMANNOVA, Klara, inz.; ZVACH, Jan, inz.

Processing of technical mixtures of multivalent phenols into bituminous products (IV). Effect of melamine on the polycondensation reactions of diphenyl and pyrocatachin residue with formaldehyde and alkaline catalyst. Chem zvesti 16 no.7:516-525 Jl 162.

1. Katedra organickej technologie, Slovenska vysoka skola technicka, Bratislava, Kollarovo namesti 2, Chemicky pavilon (for Gasperik). 2. Kovosmalt, n.p., Trnava (for Zvachova and Zvach).

GASPERIK, Juraj, prof., dr.; ZVACHOVA-HUPPMANNOVA, Klara, inz.; ZVACH, Jan, inz.

Processing of technical mixtures of multivalent phenols into bituminous products (V). Condensation of diphenyl and pyrocatechin residue with formaldehyde in presence of acid catalysts and without catalyst. Chem zwesti 16 no.7:526-531 Jl 162.

1. Katedra organickej technologie, Slovenska vysoka skola technicka, Bratislava, Kollarovo namesti 2, Chemicky pavilon (for Gasperik). 2. Kovosmalt, n.p., Trnava (for Zvachova and Zvach).

GASPERIK, Juraj, prof., dr.; ZVACHOVA-HUFPMANNOVA, Klara, inz.; ZVACH, Jan, inz.

Processing of technical mixtures of multivalent phenols into hituminous products. Part 1: Diphene and pyrocatechin residue. Chem zvesti 15 no.11/12:909-913 N\_D '61.

1. Katedra organickej technologie Slovenskej vysokej skoly technickej, Dratislava. Authors' address: Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka (for Gasperik); Kovosmalt, n.p., Trnava (for Zvachova and Zvach).

GASPERIK, Juraj, prof., dr.; ZVACHOVA-HUPPMANNOVA, Klara, inz.; ZVACH, Jan, inz.

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GASPERIK, Juraj, prof., dr.; ZVACHOVA-HUPPMANOVA, Klara, inz. (Kovosmalt, n.p., Trnava); ZVACH, Jan, inz. (Kovosmalt, n.p., Trnava)

Processing of technical mixtures of multivalent phenols into bituminous products. Part 3: Condensation of pyrocatechin residue with formaldehydes in alkaline medium. Chem zvesti 16 no.1/2:56-59 Ja-F '62.

1. Katedra organickej technologie Slovenskej vysokej skoly technickej, Bratislava. Gasperik's address: Bratislava, Kollsrovo namesti 2, Chemicky pavilon Slovenskej vysokej skoly technickej.

 CZECHOSLOVAKIA / Chemical Technology, Chemical Products H and Their Application, Part 3. - Industrial Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 51843.

: Jan Zvach, Klara Zvachova-Huppannova. Author Inst

Title : New Equipment for Tret-Butyl Preparation.

Orig Pub: Chem. Prumysl, 1957, 7, No 12, 654 - 655.

Abstract: The equipment for tret-butyl preparation according to the authorst method (see the forgoing abstract) is described. As compared with other methods, that process distinguishes itself by safety, continuity and remote control. (CH3)3 fed through calibrated capillaries with electro-

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Card 1/2

Card 2/2

53

CZECHOSLOVAKIA / Chemical Technology, Chemical Products H and Their Application, Part 3. - Industrial Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61843.

Abstract: with water. The process temperature is measured with a contact thermometer, which switches in the raw material feed, when the upper temperature limit is overstepped. The product runs down into the collector emulsion, from where it passes into the separating vessel. The separation of layers is carried out periodically using electromagnetic valves. The product is let out into 5%-ual NaHCO3 solution, after which it becomes safe. The installation is applicable to the preparation of other hydroperoxides of liquid substances.

Card 2/2

53

GASPERIK , Juraj, prof., dr.; ZVACHCVA-HUPPMANMOVA, Klark, inz.; ZVACH, Jan,

Processing of technical mixtures of multivalent phenols into bituminous products. Part 2: Condensation of diphene with formaldehyde in alkaline medium. Chem avesti 15 no.11/12:914-917 P-D '61.

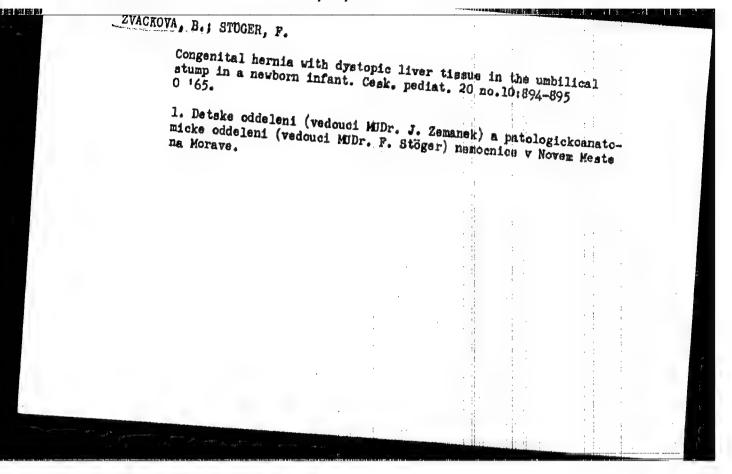
1. Katedra organickej technologie Slovenskej vysokej skoly technickej, Bratielava. Author's address: Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka (for Casperik); Kovosmalt, n.p., Trnava (for Zvachova and Zvach).

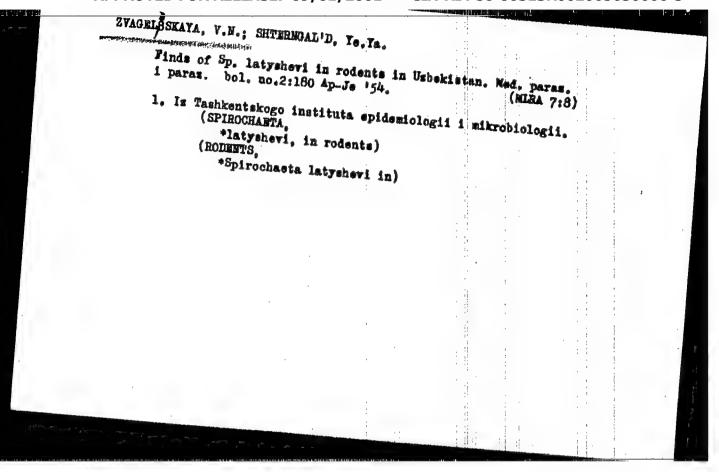
ZVACHTA, V.

"Warning to thieves of national property." p.254

ZELEZNICAR, (Ministertvo dopravy) Praha, Czechoslovakia No. 11, Nov. 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 6, June 1959 Uncl.





Experience in the preparation of vaccine against Q fever. Zhu.

Experience in the preparation of vaccine against Q fever. Zhu.

mikrobiol.epid. i immun. 27 no.7:22-23 Jy '56. (MLRA 9:9)

1. Is Tashkentekogo institut vaktsin i syvorotok.

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vaccine prep. from spleens of white mice)

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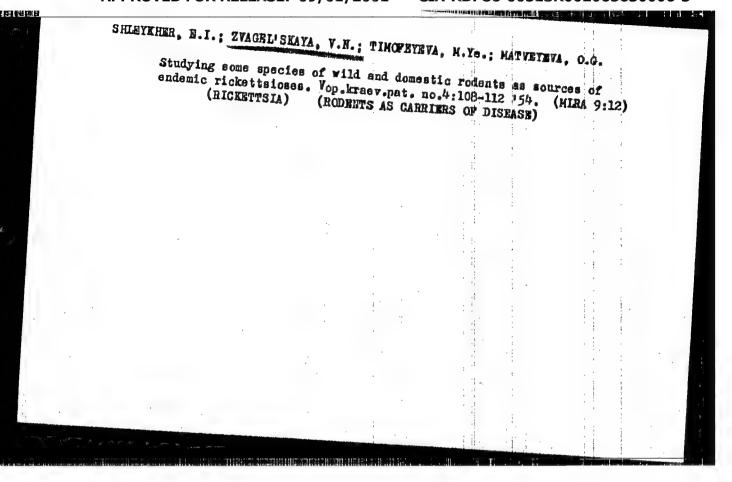
prep. of Q fever vaccine from spleen of white mice)

LYSUNKINA, V.A.; ZVAGEL'SKAYA, V.N.

Natural reservoirs of the Q fever virus in Uzbekistan. Dokl. AN
Uz. SSR no.11:59-61 '57. (MIRA 11:5)

1.Tashkentskiy nauchno-issledovatel'skiy institut vaksin i syvorotok.

(UZHEKISTAN--Q FEVER)



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22714-00 EWI(M) JW/JD ACC NR. AP6016045 1 (A)SOURCE CODE: UR/0185/66/011/005/0520/0526 AUTHORS: Zvyahin, A. I .- Zvagin, A. I.; Yeremenko, V. V.; Skorobohatova, I. V .-- Skorobogatova, I. ORG: Physicotechnical Institute of Low Temperatures, AN UKSK, Khar'kov (Fizykotekhnichynyy Instytut nyz'kykh temperatur AN URSR) TITLE: Infrared absorption spectrum of crystals of antiferromagnetic cobalt compounds. Part III. Absorption in CoCog and CoClg Ukrayins'kyy fizchnyy zhurnal, v. 11, no. 5, 1966, 520-526 SOURCE: TOPIC TAGS: co lt compound, IR spectrum, IR absorption, electron transition, antiferromagnetic material ABSTRACT: A study has been made of light absorption by CoCO3 and CoCle in the 600-2000 cm-1 region and in the 10-300-K temperature range. has been shown that the formation of more absorption bands than expected from splitting the ground term 4F9/2 of the Co++ ion in the crystalline field, taking into consideration spin-orbit interaction, can be explained by the presence of vibrational (and, possibly, electron-vibrational) bands. Using Lines arrangement [Lines, M. E., Phys. Rev., 131, 546, 1963] for splitting the lower triplet of the ground term Card 1/2

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VOYTOVICH, B.A. (Kiyev); ZVAGOL'SKAYA, Ye.V. (Kiyev); TUMAHOVA, N.Kh. (Kiyev)

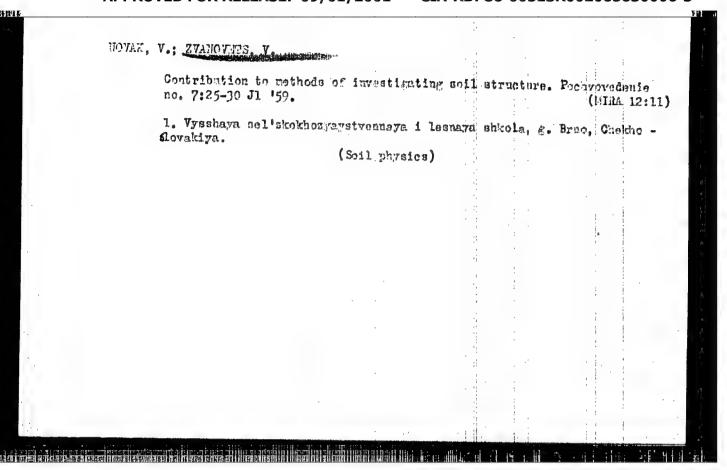
Interaction of thionyl chloride with certain impurities in commercial titanium tetrachloride. Izv. AN SSSR. Met. no.6: 46-51 N-D '65. (MIRA 19:1)

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MACULEVICA, S., red.; ZVAGUZIS, I., red.; BRIVERE, M., red.

[Soviet Latvia] Fadomju latvijs. Sovetskala Latviis. Riga,
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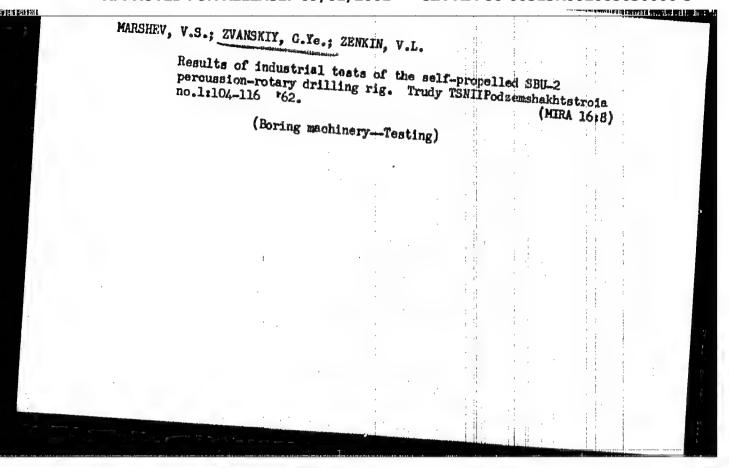
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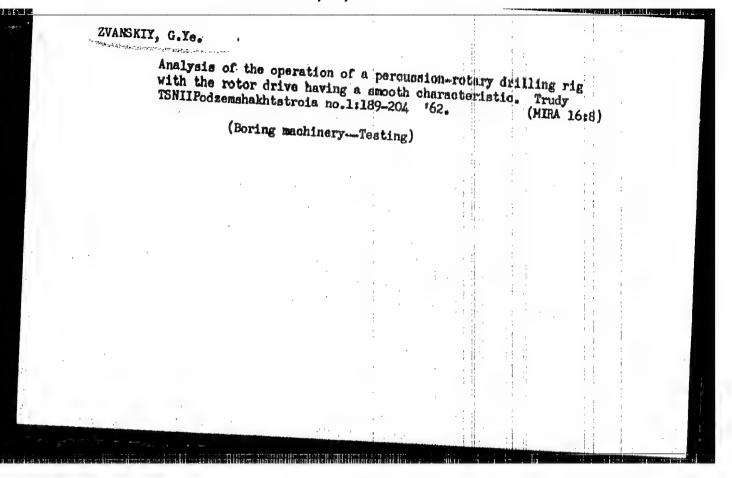
 BLOKHIN, N.N., prof.; ZVANTSEVA, V.A., kand. med. nauk; MUKHINA, M.P., kand. med. nauk; SYROMYATNIKOVA, N.V., kand. ned. nauk

Some physicochemical, biochemical and cytological changes in the synovial fluid of tuberculous synovitis patients. Probl. tub. 42 no.1:64-68 '64. (MIRA 17:8)

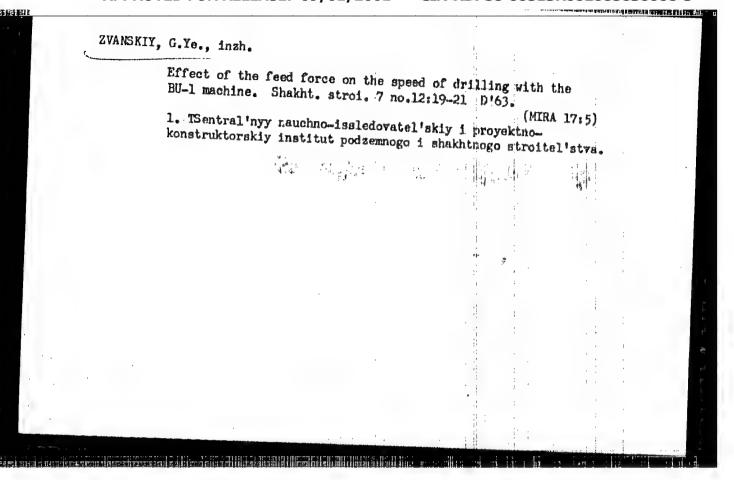
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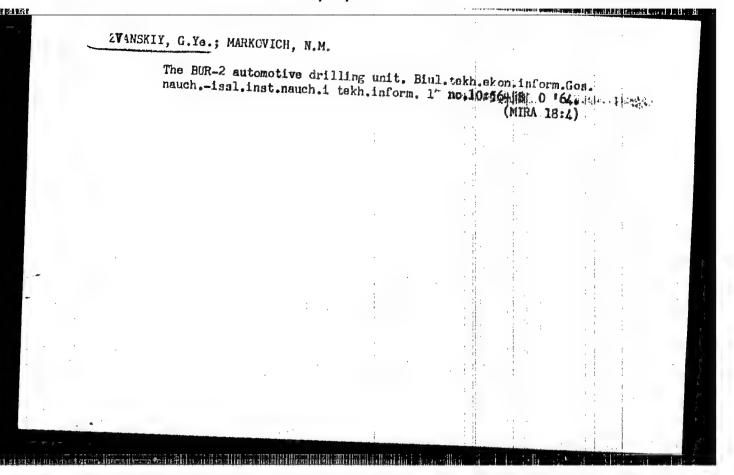


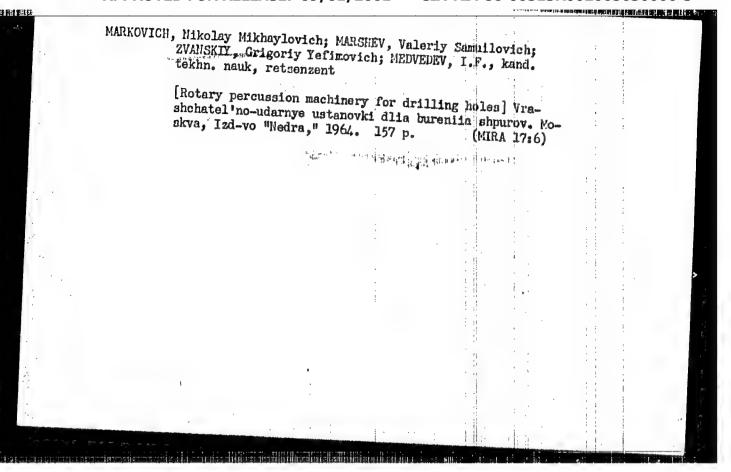
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 ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BABKIN, S.M.; BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; BIYANOV, T.F.; GORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.; GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.; ZVANSKIY, M.I.; ZENKEVICH, D.K.; IVANOV, B.V.; INYAKIN, A.Ya.; ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHÉVNIKOV, N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOYAHOV, L.I.; KUDRYAVTSEV, G.N.; LARIN, S.G.; LEBEDEV, V.P.; LEVCHENKOV, P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOPAREV, A.T.; MALYGIN, G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHATLOV, B.V., kand. tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.; NEFEDOV, D.Ye.; NIKIPOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.; PAVLENKO, I.M.; PODROBINNÍK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.; RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, N.H.; SAZONOV, N.F.; SAULIDI, I.P.; SDOENIKOV, D.V.; SEMENOV, N.A.; SKRIFCHINSKIY, I.I.; SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUEOV, A.I.; TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAREV, B.F.; TSETSULIN, N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; ENGEL', F.F.; YUROVSKIY, Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.P.; KAMZIN, I.V., prof., glav, red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIXOV, A.M., zam. glav. red.; RAZIN, N.V., zam. glav. red. 1 red. toma; VARPAKHOVICH, A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof., red.; SARUKHANOV, G.L., red.; SEVAST! YANOV, V.I., red.; SMIRNOV, K.I., red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red. (Continued on next card)

ALEKSEYEV, G.P.---(continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaia gidroelektrostantsiia; tekhnicheskii otchet o proektirovanii i stroitel'stva Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of constrution and assembly work] Organizatsiia i proizvodstvo stroitel'nomontazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

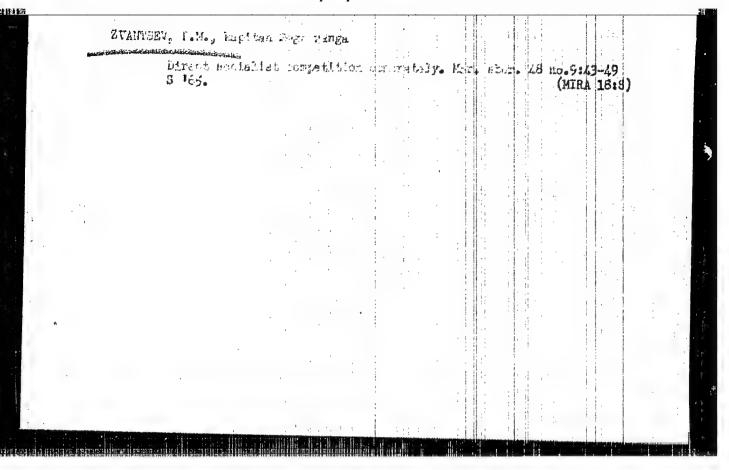
1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin).

(Volga Hydroelectric Power Station (Lenin) -- Design and construction)

ZVANSKIY, S.Ya.; LUSHIN, B.D.

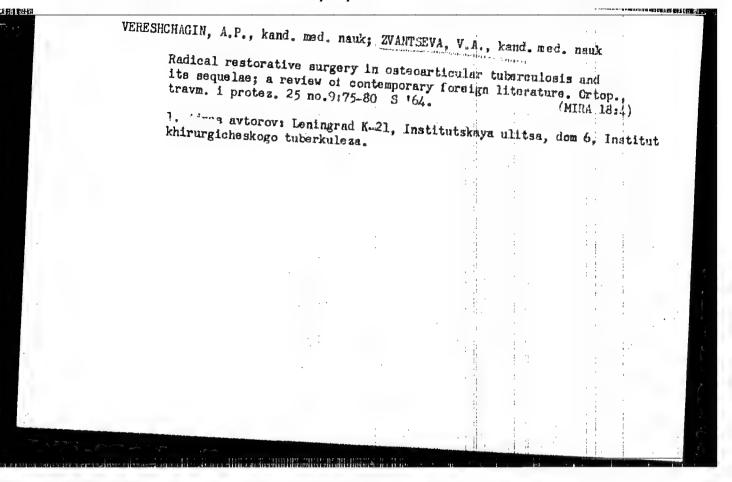
Compensation level gauge. Mash. i neft. obor. no.11;37-38
'64. (MIRA 19:1)

1. Novogroznenskiy neftepererabatyvayushchiy zavod.



34210. ZVANTSZVA, V. A. i MUSAELYAN, S. Kh. O biologicheskoy aktivnosti perifericheskoy krovi bol'nykh stradayushchikh sosudistymi zabolevaniyami gdovno o mozga s gemiparezami. V sb: Problemy Kortiko-vistseral'noy patologii. M., 1949, s. 326-33.

SO: Knizhnaya Letopis' No. 6,1955



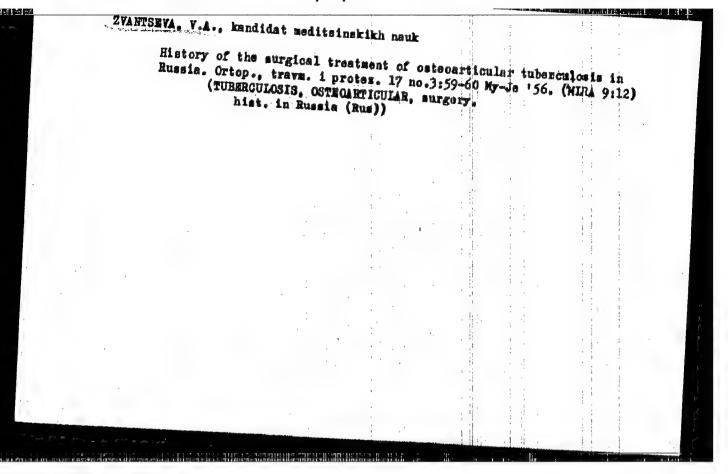
ZVANTSEVA. V.A., kandidat meditsinskikh nauk (Leningrad, Kirovskiy pr.,

d. 1975 kv. 39)

History of physical and climatic therapy of ontecarticular tuberculosis in Russia. Vest. khir. 74 no.6175-79 s = 54. (MERA 7:10)

1. Is Gosudarstvennogo nauchno-issledovatel'skogo instituta khirurgl-cheskogo tuberkuleza i kostno-sustavnykh sabolevaniy (dir. prof. (TUSRRQULOSIS, OSTEOARTICULAR, therapy, climatic & phys. ther., hist. in Russia)

(PHYSICAL THERAPY, in various diseases, tuberc., osteoarticular, hist. in Russia)



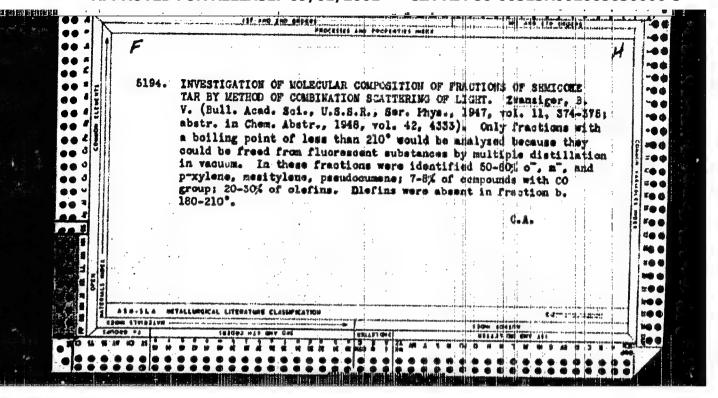
ZVANTSEVA, V.A. (Leningrad, Kirovskiy prospekt, d.73/75, kv.39); TAIAFTOV, V.A.

Pigmental villoge nodular synovitis. Ortop., travm. i protez.

(KIRA 1B:3)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. - AMN SSSR prof. P.G. Korney).

AMN SSSR prof. P.G. Korney.



HONEY PROPERTY OF THE PROPERTY BOV/55-58-6-17/31 Zyara, La On the Energy Distribution of the Recoil Atoms in the AUTHOR: Reactions (n, 7)(Ob energetioheskom raspredelenii atomov TITLE: otdachi pri reaktsiyakh (n, 7)) Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958,3Nr 6, PERIODICAL: pp 127-138 (USSR) Radioactive atoms have the property, after radioactive conversion, of entering into chemical reaction with such molecules as still contain mother atoms. In this way, gamma ABSTRACT: products are produced which can be analyzed according to their radioactivity. The effect of activation has been quantitatively investigated only on halogens and alkyl halides. The results obtained as well as the theories deduced from them are, however, rather contradictory. For the investigation of processes caused by the "burning" atoms it is important to determine the real energy distribution of the recoil atom of the (n, 7) reaction, which may be calculated from the pospture spectrum. Pigure 1 shows the scheme of the levels occurring in 7-capture, which was set up according to data given by Card 1/3

On the Energy Distribution of the Recoil Atoms in the SOV/55-58-6-17/31

Groshev (Ref 19), and figure 2 shows that which was set up by the authors on the basis of this scheme. A cascade on a ground level is then mathematically investigated, which does not, as different in publications, correspond to only two y-quanta with same values or to three, four, and six y-quanta with the same values, but which, for the first time, corresponds to three carried out separately for one, two, and three quanta. According to the formulas obtained the energy distribution of the recoil atoms of the reactions Cl<sup>35</sup>(n, y)Cl<sup>36</sup> and S<sup>32</sup>(n, y)S<sup>33</sup> (Figs 6,7) is so great that the phenomenon of the burning atom cannot occur, to bring about such a disruption (Figs 8, 9). The author thanks this work. There are 9 figures and 25 references, 5 of which are

Card 2/3

On the Energy Distribution of the Recoil Atoms in the SOV/55-58-6-17/31

ASSOCIATION: Kafedra neorganicheskiy khimii (Chair for Inorganic Chamistry)

SUBMITTED: December 2, 1957

# "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R002065630006-3

NESMETANOV, An.N.; BORISOV, Ye.A.: ZVARA I.

Chemical action of radioactive brownine atoms formed in the reaction of brownine with neutrons in halogen derivatives of methans. Radiokhimila 1 no.3:325-335 59. (MIRA 12:10)

(Brownine) (Methans)

BL379 2/038/60/000/004/003/005 A201/A026

26. 2230

21,1200 AUTHORS:

Zvara. Poděšť, Milan;

TITLE

Water Suspension Reactors

Jaderna energie, 1960, No. 4, pp. 120 -

Based on materials of the first and second Geneva Conferences, the PERIODICAL article presents a review of chemical and engineering problems encountered in the designing of suspension nuclear reactors. A Soviet proposal submitted at the TEXT: conference was based on extensive experimental and small-scale model studies. These studies included the behavior of uranium oxide suspensions during long-term heating and the conditions necessary to preserve the homogeneity during boiling. They resulted in the development of equipment for the decontamination of vapors, originating in the active region, with a coefficient of 1010, and in the solution of the recombination problem of fission product gases. Soviet experts have also succeeded in keeping fission-product poisoning down to 1 - 2%. At the second Geneva conference in 1958, Byakov submitted a report (Ref. 8) containing physical and material-economy calculations of a reactor with a rated power of 1,200 -2.000 Mw using natural-uranium oxide in heavy-water suspension. The project pro-

Card 1/2

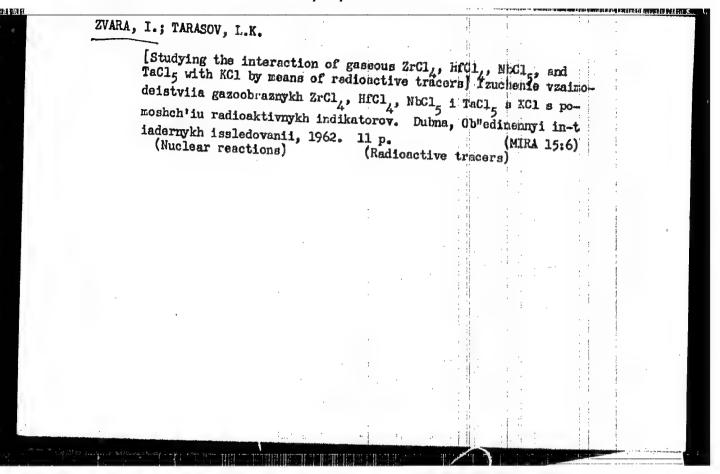
Water Suspension Reactors

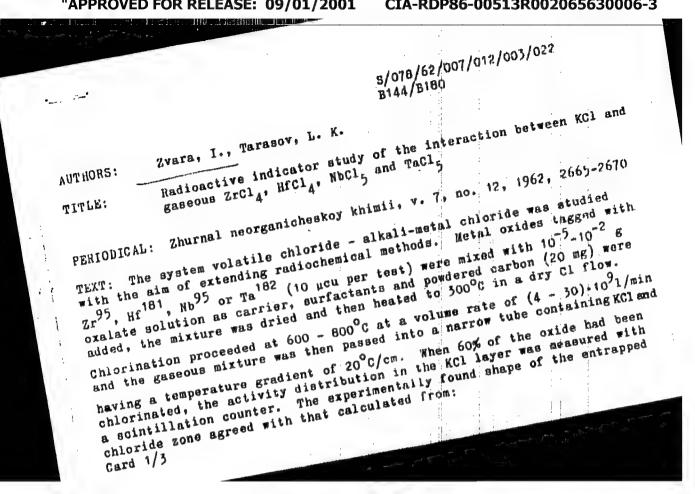
81,379 2/038/60/000/004/003/005 A201/A026

vides for a continuous, chemical fuel-reprocessing with recycling of the separated plutonium and continuous replenishment by fresh fuel. An output of about 220 million kwh per ton of uranium is assumed. - In a report on the Soviet progress in nuclear engineering development, Yemelyanov (Ref. 9) stated that a 35 Mw homogeneous reactor with either suspension or solution fuel was being built on the Volga river. - A Czechoslovak report (Ref. 1) described a preliminary design of an experimental, circulating-suspension reactor using enriched uranium oxide in light-water suspension. Principal technical data of this reactor project are shown in Table 1: thermal output: 10 Mw (th); electrical output: 2.5 Mw; active region volume: 500 1; suspension concentration: 15% by weight; U-235 enrichment: 17%; average neutron flux: 2.2 x 10 3 n/cm²-dec; produced steam: 255°C, 44 atm. (Edited by J. Beránek.) There are 2 figures, 2 tables and 16 references: 1 Czechoslovak, 3 Soviet and 12 non-Soviet-bloc

ASSOCIATION: Ústav Jaderného výzkumu ČSAV (Institute of Nuclear Hesearch, ČSAV)

Card 2/2





S/078/62/007/012/003/022

Radioactive indicator study of the ...  $f(x) = k\Gamma/(T_1 - \tau x)^2 \cdot 10 \exp(-A/(T_1 - \tau x)), x > x_0 \text{ and } f(x) = 0, x < x_0, \text{ where}$ Tis the gradient 0 K/cm and k a numerical coefficient. This method can be used for determining the temperature dependence of the decomposition pressure of binary systems and the saturated vapor pressure of single compounds. Vapor pressures, decomposition produces, enthalpies and entropies are indicated for K2ZrCl6, K2HfCl6, Khal6, KNbCl6, and the KC1-NbOCl system. It was found that NbCl can be separated from NbOCl, by KCl. The Paulibrium diagram of the NbOCl 3-KCl system was studied. The lowest partial pressure reached was 10-4mm Hg. The shape of the zone began to change. Tacl 5 from 10-2 mm Hg. for NbOCl 3 from 10-3 mm Hg, and for 2rCl 4 and HfCl 4 from 10-4 mm Hg. Chloride adsorption increased gradually along the KCl layer and then fell suddenly. The adsorption coefficient rises when the temperature falls. The discontinuity of the zone shifts to higher temperatures when the partial pressure decreases, and is also test time-dependent. Although not equal that of An. N. Nesmeyanov (Davleniye para khimicheskikh elementov (Vapor pressures of Card 2/3

8/078/62/007/012/003/022 Radioactive indicator study of the ... B144/B180

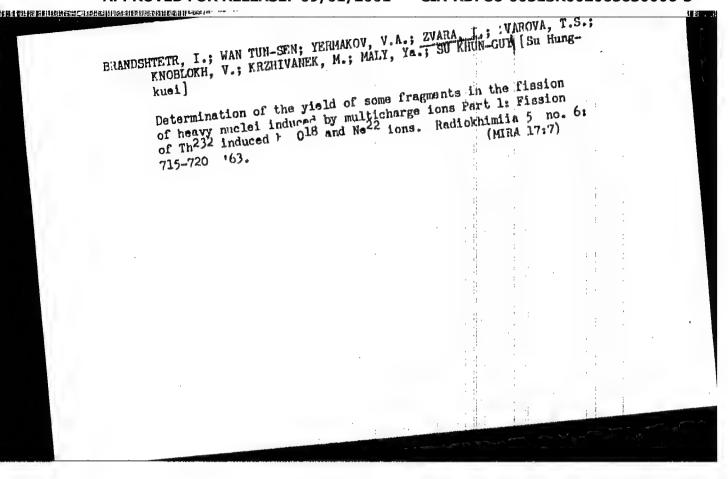
chemical elements), Moscow, Izd-vo AN SSSR, 1961, 31) in accuracy, the method can be used for a variety of substances and at extremely low pressures. Disadvantages are the limited pressure range and the possibility of ambiguous interpretation in some cases. There are 4 figures and 2

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy Laboratoriya yadernykh reaktsiy (Joint Institute of Muclear Research Laboratory of Ruclear Reactions)

SUBMITTED:

April 16, 1962

Card 3/3



S/020/63/148/003/014/057 B108/B180

AUTHORS:

Zvara, I., Tarasov, L. K., Krzhivansk, M., Su Hung-kuei,

Zvarova, T. S.

Formation of Zr97Cl4 when fission fragments are slowed down

TITLE:

in gases containing chlorine

Akademiya nauk SSSR. Doklady, v. 148, no. 3, 1963, 555-557

TEXT: Experiment: A U308 layer (target) on a mica backing was covered with a thin fluoroethylene film and placed in a fluoroethylene-4 ampoule. Gas containing inactive ZrCl4 was passed through the ampoule while the target was bombarded with neutrons from a standard Po-He source. The gas was condensed at the outlet and radiochemically analyzed for Zr97. Results: Above 170°C, the fission-fragment Zr97 is stabilized in the form This process involves exchange of the hot Zr 97

Card 1/2

Formation of  $Zr^{97}Cl_A$  when fission ...

S/020/63/148/003/014/037 B108/B180

the ZrCl<sub>4</sub> molecule. Zr<sup>97</sup>Cl<sub>4</sub> forms from primary fission-fragment Zr<sup>97</sup> as well as that arising in the beta decay of Y<sup>97</sup>. The method outlined here can be used to enrich Zr97. There are 1 figure and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

August 1, 1962, by V. N. Kondrat'yev, Academician PRESENTED:

June 13, 1962 SUBMITTED:

Card 2/2

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FLEROV, G.N.; DRUIN, V.A., kand. fiz.-mat. nauk; CANESYAN,
Yu.Ts., kand. fiz.-mat. nauk; POLIKANOV, S.M., kand.
fiz.-mat. nauk; DONETS, Ye.D., nauchn. sotr.; ZVARA,
Ivo, nauchn. sotr.; CHERNOV, A.G.; FAYNBOYM, I.B., red.

[Prospects for the synthesis of transuranium elements. Ninth discussion. Participants in the discussion: Flerov, G.N. and others] Perspektivy sinteza transuranovykh elementov. V besede uchastvuiut: G.N.Flerov i dr. Moskva, Znanie, 1965. 39 p. (Novce v zhizni, nauke, tekhnike. IX Seriia: Fizika, matematika, astronomiia, no.10) (MIRA 18:5)

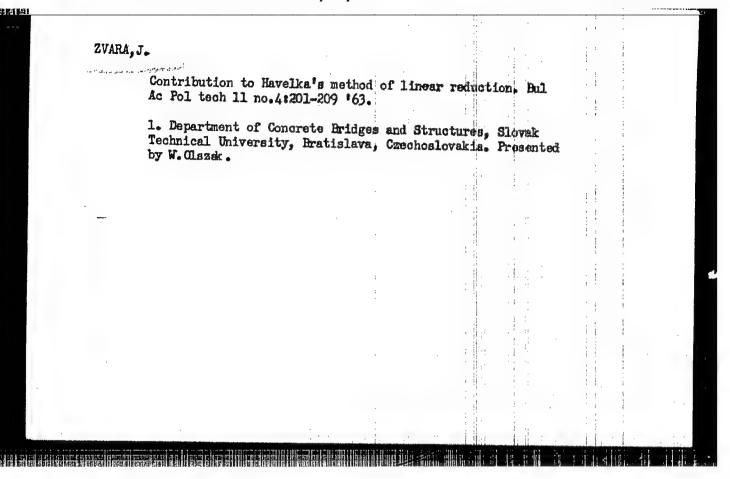
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# -ACC NR: AP6029794

event detector. The presence of the 104<sup>260</sup> isotope was recorded by the detector in the gaseous stream transporting the IV B group element chlorides. A total of 12 atoms of the 104<sup>260</sup> isotope was recorded during a series of experiments. Recurrence intervals of all 12 spontaneous fission events confirmed the earlier established earlier advanced hypothesis of a sharp difference in the chemical property between the 104 element and transuranium elements which were discovered in the past few shown to be close to hafnium, hence to belong to the IV b group of the Periodic Table Academy of Sciences SSSR.

SUB CODE: 07/ SUBM DATE: 18May66/ ORIG REF: 004/ OTH REF: 001 ATO Puss 5065

Card 2/2



Outline of the woodworking industry in Yugoslavia. Drewo 17 no.3186-89 Mr .'62.
1. Riaditel narodneho podniku Smrecina, Banska Bystrica.

ZVARA, J.

Country : CZECHOSLOVAKIA

Category: Plant Diseases. Diseases of Cultivated Plants. C

Abs Jour : RZhBiol., No 6, 1959, No 25204

Author : Zvara, J.

Inst Title

: Fungus Diseases of Narroe-Leaved Lupine.

Orig Pub: Za vysokou urodu, 1958, 6, No. 9, 212-213

Abstract: Considerable harm to the narrow-leaved lupine is inflicted by powdery mildew (Erysiphe), fusarium wilt, brown leaf mold, macrosporiasis, and rhizoctonia disease. For the prevention of the disease, it is recommended to sow lupine with well-ripened, healthy seeds and to treat them by a fungicide. — P. N. Shte-

renberg

Card : 1/1

ZVARA, Jaroslav; PRIBYS, Rudolf; HRADIL, Ilja

Changes in the region of ventral spinal columns in rate irradiated by a lethal dosis of K-rays. Cesk. morf. 12 no.1: 40-49

1. Histologisko-embryologicky ustav Lekarske fakulty KU v Hradci Kraloce (prednosta: prof. dr. Vlastimil Vrtis). Predneseno na 6. sjezdu Sc. anatomicke spoleonosti ve Vysokych Tatrach ve dnech 24.9. - 27.9. 1962.

HAVELKA, Karol, prof., inz.dr.; TROKAH, Jozef, prof., inz. dr.; ZVARA Jozef, d.c., inz.

Induction of static quantity functions in calculation of bridge slabs. Inz stavby 11 no.10:363-373 0 163.

1. Slovenska vysoka skola technicka, Bratislava, Katedra betonovych konstrukcii a mostov.

ZVARA, Jozef; KOLEK, Jozef

Briv Stat

Disorders of nutrition and the apoplexy of peaches. Biologia 14 no.12: 881-887 '59. (EEAI 9:7)

1. Oddelenie fyziologie rastlin Biologickeho ustavu Slovenskej akademie vied. Bratislava.
(PEACH) (PLANTS)

BH CEN

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ACC NR: AP6030044 SOURCE CODE: AUTHOR: Zvara, JozefZvara, Y. (Bratislava)	0Z/00	49/65/	/000/010	/0721/07:	30
RG: Department of Plant Physiology, Botanical Institute			islava		
ITIE: Some factors affecting the adsorptive ability of	mant -				
OURCE: Biologia, no. 10, 1965, 721-730	TOUGE	: "		:	
OPIC TAGS: adsorption, ion exchange, plant chemistry		: .	: :	\$ 1 •	
ESTRACT: Study with barley, pea, and corn roots, dipped tric, sulfuric, phosphoric, or acetic acid, to determine the change capacity. There was no qualitative difference be change capacity. Orig. art. has: 9 tables. [Orig. art.]  B CODE: 06 / SURK DATE: 10: (5)	titte (	att 6CC	on cat:	lon	
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ZVARA, V.; KOTULA, V.; ZVOLENSKY, M.

Ureterocele and its clinical significance. Gask. radiol. 19 no.2:130-136 Mr '65.

1. Urologicka klinika (Prednosta: MUDr.F.Jakes); II. detska klinika (prednosta: prof. dr. J. Michalickova) Lekarskej fakulty University Karlovy v Bratislave.

ZVARA, V.; HRUCH/C(VA, V.

Appendicovesical fistula in 2 children. Cesk. pediat. 19 no.8:705-706 Ag 164.

\$ FEE \$ 2

1. Katedra urologie (veduci doc. dr. V. Zvara, CSc.) a II. pediatricka katedra (veduca prof. dr. J. Michalickova) Lekarskej fakulty University Komenskeho v Bratislave.

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2VARA, Josef; LACOK, Pavol; KOLEK, Josef

Physiological properties of waste in the production of penicillin.
Biologia 15 no.2:23-31 '60. (EBAI 9:5)

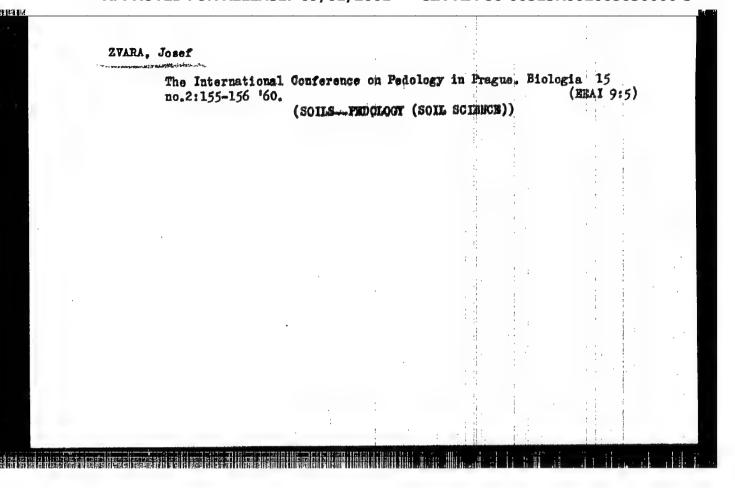
1. Biologicky ustav Slovenskej akademie vied, Oddelenie fyziologie rastlin, Bratislava. (MYCELIUM)

(FENICILLIN) (MYCELIUM)

ECLEK, Josef; LACOK, Pavol; ZVARA, Jozef

A study of the physiological properties of corn lye, Biologia 15 no.2166-71 '60. (ERAI 9:5)

1. Biologicky ustav Slovenskej abademie vied, Oddelenie fyziologie rastlin, Bratielava. (GORN (NAIZE)) (INDOLEACETIC ACID)



ZVARA, J.

"Research on plant nutrition in the German Democratic Republic."

BIOLOGIA, Slovenska akademia vied, Bratislava, Czechoslovakia, Vol. 13, No. 12, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncl.

COULTRY	:	CZECHOCIOVÁKIA			~	
CAT'SCORY	1	Plant Discoses. Gultivated Plants.		*,	O	1
ABS. JOUR.	:	EZhBiol., No.14, 1953, No. 63701			: -	
AUTHOR	:	Zyare, Josef	•		. : :	
inst. IIIL	:	Bordomix Fixture for the Control of F	er ono	spora	1-4	
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ORIG. PUB.	:	Vineratvi, 1956; 49, No. 7, 101-102 (	chesks	k.)		
ORIG. PUB.		Vineratvi, 1956, 49, No. 7, 101-102 ( Tests of 1.5% Bordeaux mixture, 0.75% 0.3% aclutions of Cu oxide against pu grupe plant showed the advantages of	eupre ronosi	eol, O. ora	tho	
1		Tests of 1.5% Bordeaux mixture, 0.75% 0.5% aclutions of Cu oxide against per	eupri ronosi Bordei	eol, O. ora	the ure.	
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KHRZ. ZVARA CZECHOSLOVAKIA/Chemical Technology - Cellulose and Its Derivatives. Paper. : Ref Zhur - Khimiya, No 16, 1958, 56068 : Khrz. Zvara Author Inst : Production of Semicellulose and Its Commercial Signifi-Title cance. : Drevo, 1957, 12, No 12, 363-365 Orig Pub : Data are examined concerning the production of semi-Abstract collulose in various countries. Emphasis is placed on the need for establishing the production of semi-callulose from leafy varieties in Czechoslovakia for the purpose of preservation of its forest resources. Card 1/1

ZVARA, Milan; ZVAROVA, Mira

Bird cherries as a raw material for the damning industry.
Prum potravin 15 no.9:440-441 5 '64.

1. Teva, Local Industry Enterprise, Bardejov.

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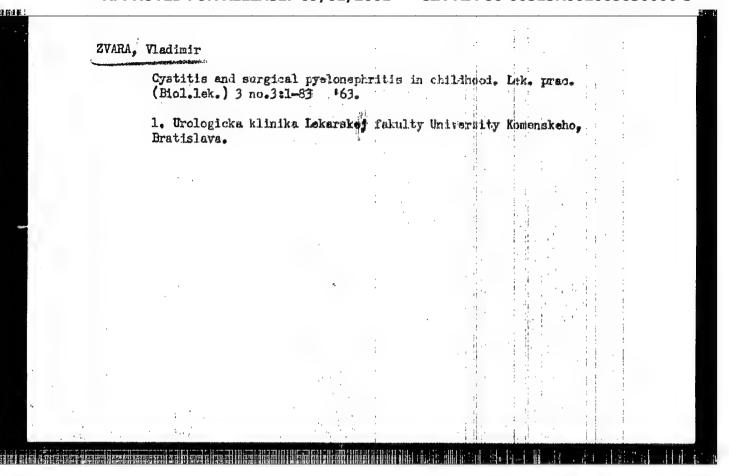
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(STATE MEDICINE) (UROLOGY)

 ZVARA, V; WUNDER, R; LUKAČOVSKÝ, M.

Czechoslovakia

Urological Ulinic of the Medical Faculty of Komonsky
University -- Bratislava (Urologicka klinika
Lek. fak. Univ. Komenského -- Bratislava); Director:
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Sanitation of the Medical Faculty of Komensky
University - Bratislava (Ustav organizacie zdravotníctva
Lek. fak. Univ. Komenského -- Bratislava); Director:
J. DEDEK, MUDr. - (for all)

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ZVARA, V; JAKES, F; DZURIK, R; KALOCAJ, J.

1. Urological Clinic (Urològicka klinika), Bratislava (for Jakes); 2. Third Internal Medicine Clinic (III. interni klinika), Bratislava (for all)

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(PIRLONEPHRITIS)

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1. Z U	rologickej kliniky Lek sta MUDr. F. Jakes.	fak. Univ.	Konenske	ho v Brati	slave,
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# ZVARA, V.

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Czechoslovakia

Urological Clinic LF UK -- Bratislava (Urologicki klinika LF UK -- Bratislava); Head: F. JAKES, MD Bratislava

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"Diseases of the Urogenital System in Children -- Possibilities of Prevention."

Treatment of exat: Au; 56.	roig of th	e blacder.	Roshi, chi	ir. 35 no.9	:51.9-526
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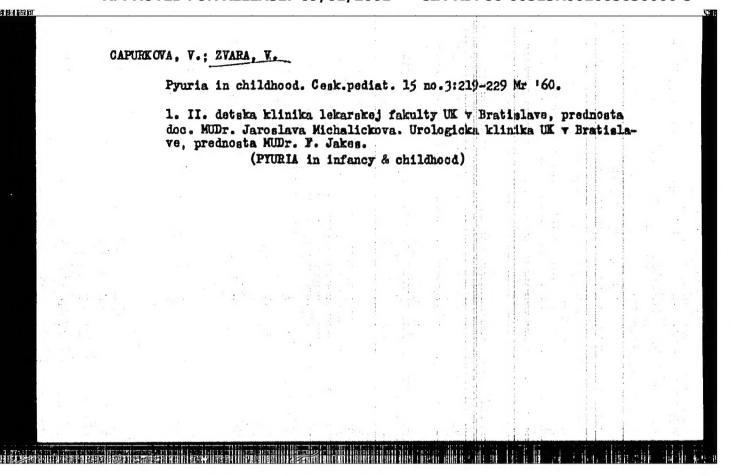
**中国的国际国际** 3919. Implantation of the weeters into the large intestine and some of its sequence (with spream) regard to Maydl's operation) O implantácii močovodov do hrubého čreva a niektorých jej následkoch (s osobitnym zreteľom Maydlovu operáciu). Zvara V. Ed. Biol. Med. Sect. Slovak Acad. Sci. (Med. series) 1956 (127 pages) The various methods of implantation of the ureters into the colon are described and analysed, with special reference to the method described in all 4 by the Czech surgeon Maydl. The principle of this operation is the implantation of an elliptical flap of the urinary bladder with both ureteric openings into the sigmoid flexure in such a way that the long axis of the ellipse is parallel to the long axis of the intestine. This method is often employed in the wrong way. Although this implantation has repeatedly been carried out successfully by Maydl and also by Bedrna, it was experimentally tested in dogs by the author. It was found that the grafting of a wider ellipse is of advantage (important for healing and innervation). Of the patients operated on by Maydl, one man has survived the operation for 45 yr. and is entirely capable of work. The implantation is followed by chronic acidosis with an elevated chlorine level in the plasma and a decreased alkali reserve. The cause is not renal damage, but an increased chlorine absorption through the intestinal wall. Bacteriological examinations revealed that only Proteus vulgaris has decisive urcolytic properties and thus contributes to the increase of acidosis. The removal of this microorganism from the intestinal flora may reduce the acidosis. For treatment of acidosis, ionex in dextrine suppositories was used, but without success. Wondrak - Olomouc

#### ZVARA, V.

"Wild fruit from the forest and field in the Slovak Food industry."

p. 304 (Prumysl Potravin, Vol. 9, No. 6, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (FEAI) LC, Vol. 7, No. 9, September 1958.



ZVARA V.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Food Industry.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44943.

Author : Zvara V.

Inst

: Processing of Edible Mushrooms in the Food Industry Title

and the Utilization of Waste.

Orig Pub: Prumysl; potravin, 1957, 8, No 6, 301-308.

Abstract: Nutritive value of mushrooms is considered, and also the possibility of their utilization as raw material in the food industry. Gathering, shipping and storage of mushrooms are discussed. A description is given of the processes whereby mushrooms are converted to the finished products

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